

Serial No. 10,690,670

LISTING OF CLAIMS:

1-34 (Canceled)

35. (Currently amended) A ~~composite-type compressor~~, compressor comprising:

an input ~~means~~ rotor for receiving power from an external drive source;

a dynamotor for operating as a motor ~~and/or~~ and a generator;

a compressor for compressing a fluid ~~when it is driven by said motor and/or said generator~~, wherein the compressor is driven by the dynamotor and the external drive source;

a control unit for ~~controlling the dynamotor to control the rotational speed of said compressor to be increased by supplying power to said dynamotor as a motor, or controlling the rotational speed to be reduced by operating as a generator, when said compressor is rotationally driven by said external drive source~~, wherein the control unit supplies power to the dynamotor, at a time when the dynamotor functions as a motor, to increase the rotational speed of the compressor while maintaining the rotational speed of the input rotor, wherein the dynamotor alternatively functions as a generator to decrease the rotational speed of the compressor while maintaining the speed of the input rotor.

36. (Currently amended) A ~~composite-type compressor~~ according to claim 35, wherein said compressor can be rotationally driven by said dynamotor when said external drive source is stopped.

Serial No. 10/590,670

37. (Currently amended) A ~~composite-type~~ compressor according to claim 35, wherein the power output from said dynamotor is controlled by duty factor control operation.

38. (Currently amended) A ~~composite-type~~ compressor according to claim 36, wherein a power output from said dynamotor is controlled by duty factor control operation.

39. (Currently amended) A ~~composite-type~~ compressor according to claim 35, wherein said compressor is a fixed displacement compressor.

40. (Currently amended) A ~~composite-type~~ compressor according to claim 36, wherein said compressor is a fixed displacement compressor.

41. (Currently amended) A ~~composite-type~~ compressor according to claim 37, wherein said compressor is a fixed displacement compressor.

42. (Currently amended) A ~~composite-type~~ compressor according to claim 38, wherein said compressor is a fixed displacement compressor.

43. (New) A compressor according to claim 35, wherein the dynamotor includes a field portion and an armature portion that are rotatable with respect to a housing of the compressor, and wherein the input rotor is connected to one of the field portion and the armature portion, and

Serial No. 10/690,670

a drive shaft of the compressor is connected to the other of the field portion and the armature portion.

44. (New) A compressor according to claim 35, wherein the control unit is located between the dynamotor and a battery, and the control unit rotationally drives the dynamotor such that the dynamotor functions as a motor, causes the dynamotor to function as a generator that supplies power to the battery, and operates the dynamotor in an unloaded mode.

45. (New) A method for controlling a dynamotor driven compressor in which power of an input rotor, which receives power from an external drive source, is transmitted to a compressor via a dynamotor, the method comprising:

increasing the rotational speed of the compressor while the rotational speed of the input rotor is not changed, at a time when the dynamotor is operated as a motor; and

reducing the rotational speed of the compressor while the rotational speed of the input rotor is not changed, at a time when the dynamotor is operated as a generator.

46. (New) The method of claim 45 further comprising:

employing a pulley as the input rotor; and

transmitting torque from the external drive source to the input rotor with a belt.

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